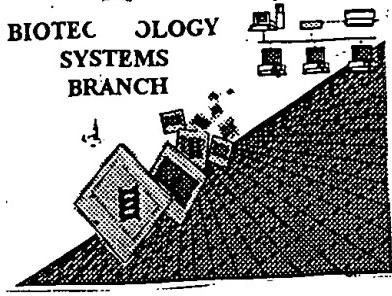


RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/816,653

Source: ~ OIPE

Date Processed by STIC: 10/17/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be downloaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

OIPE

P.5

RAW SEQUENCE LISTING

DATE: 10/17/2001

PATENT APPLICATION: US/09/816,653

TIME: 15:43:39

Input Set : A:\Sequence listing 09.816653--10716.57.txt
 Output Set: N:\CRF3\10172001\I816653.raw

3 <110> APPLICANT: Rastelli, Luca
 4 Pennica, Diane
 6 <120> TITLE OF INVENTION: NOVEL HUMAN STRA6-LIKE PROTEIN AND NUCLEIC ACIDS ENCODING
 THE SAME
 8 <130> FILE REFERENCE: 10716/57
 10 <140> CURRENT APPLICATION NUMBER: 09/816653
 11 <141> CURRENT FILING DATE: 2001-03-23
 13 <150> PRIOR APPLICATION NUMBER: 60/191,532
 14 <151> PRIOR FILING DATE: 2000-03-23
 16 <160> NUMBER OF SEQ ID NOS: 7
 18 <170> SOFTWARE: PatentIn version 3.1
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 598
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens hSTRA6 nucleotide fragment, 5' region
 25 <220> FEATURE:
 26 <221> NAME/KEY: misc_feature
 27 <222> LOCATION: (92)..(92)
 28 <223> OTHER INFORMATION: n is a, t, c or g
 31 <220> FEATURE:
 32 <221> NAME/KEY: misc_feature
 33 <222> LOCATION: (93)..(93)
 34 <223> OTHER INFORMATION: n is a, t, c or g
 37 <400> SEQUENCE: 1
 38 atgtcccgac cagcaggaa ccagacactcc cccggggcca cagaggacta ctcttatggc 60
 W--> 40 agctggtaca tcgatgagcc ccaggggggg gnngagctcc agccagaggg ggaagtgc 120
 42 tcctgccaca ccagcataacc accccggcctg taccacgcct gcctggcctc gctgtcaatc 180
 44 cttgtgctgc tgctccctggc catgctggtg aggcggccgc agctctggcc tgactgtgtg 240
 46 cgtggcaggg ccggcctgccc cagccctgtg gattttttgg ctggggacag gccccgggca 300
 48 gtgcctgtg ctgttttcat ggctcttttg agctccctgt gtttgcgtct ccccgacgag 360
 50 gacgcattgc ctttcctgac tctcgccctca gcaccaggcc aagatggaa aactgaggct 420
 52 ccaagaggaa cctggaaat actgggactg ttccattatg ctggcctcta ctaccctctg 480
 54 gctgcctgtg ccacggctgg ccacacagct gcacacctgc tcggcagcac gctgcctgg 540
 56 gcccaccttg gggtccaggt ctggcagagg gcagagtgtc cccaggtgcc caagatct 598
 59 <210> SEQ ID NO: 2
 60 <211> LENGTH: 199
 61 <212> TYPE: PRT
 62 <213> ORGANISM: Homo sapiens hSTRA6 amino terminal polypeptide fragment
 64 <220> FEATURE:
 65 <221> NAME/KEY: MISC_FEATURE
 66 <222> LOCATION: (31)..(31)
 67 <223> OTHER INFORMATION: Xaa is any amino acid
 70 <400> SEQUENCE: 2
 72 Met Ser Gln Pro Ala Gly Asn Gln Thr Ser Pro Gly Ala Thr Glu Asp
 73 1 5 10 15
 W--> 76 Tyr Ser Tyr Gly Ser Trp Tyr Ile Asp Glu Pro Gln Gly Gly Xaa Glu
 77 20 25 30
 80 Leu Gln Pro Glu Gly Glu Val Pro Ser Cys His Thr Ser Ile Pro Pro

Does Not Comply
 Corrected Diskette Needed

Errors on pp. 3-4

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/816,653

DATE: 10/17/2001

TIME: 15:43:39

Input Set : A:\Sequence listing 09.816653--10716.57.txt
Output Set: N:\CRF3\10172001\I816653.raw

81 35 40 45
84 Gly Leu Tyr His Ala Cys Leu Ala Ser Leu Ser Ile Leu Val Leu Leu
85 50 55 60
88 Leu Leu Ala Met Leu Val Arg Arg Arg Gln Leu Trp Pro Asp Cys Val
89 65 70 75 80
92 Arg Gly Arg Pro Gly Leu Pro Ser Pro Val Asp Phe Leu Ala Gly Asp
93 85 90 95
96 Arg Pro Arg Ala Val Pro Ala Ala Val Phe Met Val Leu Leu Ser Ser
97 100 105 110
100 Leu Cys Leu Leu Leu Pro Asp Glu Asp Ala Leu Pro Phe Leu Thr Leu
101 115 120 125
104 Ala Ser Ala Pro Ser Gln Asp Gly Lys Thr Glu Ala Pro Arg Gly Ala
105 130 135 140
108 Trp Lys Ile Leu Gly Leu Phe His Tyr Ala Ala Leu Tyr Tyr Pro Leu
109 145 150 155 160
112 Ala Ala Cys Ala Thr Ala Gly His Thr Ala Ala His Leu Leu Gly Ser
113 165 170 175
116 Thr Leu Ser Trp Ala His Leu Gly Val Gln Val Trp Gln Arg Ala Glu
117 180 185 190
120 Cys Pro Gln Val Pro Lys Ile
121 195
124 <210> SEQ ID NO: 3
125 <211> LENGTH: 1351
126 <212> TYPE: DNA
127 <213> ORGANISM: Homo sapiens hSTRA6 nucleotide fragment, 3' region
129 <220> FEATURE:
130 <221> NAME/KEY: misc_feature
131 <222> LOCATION: (437)..(437)
132 <223> OTHER INFORMATION: n is a, t, c or g
135 <220> FEATURE:
136 <221> NAME/KEY: misc_feature
137 <222> LOCATION: (438)..(438)
138 <223> OTHER INFORMATION: n is a, t, c or g
141 <220> FEATURE:
142 <221> NAME/KEY: misc_feature
143 <222> LOCATION: (439)..(439)
144 <223> OTHER INFORMATION: n is a, t, c or g
147 <220> FEATURE:
148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (440)..(440)
150 <223> OTHER INFORMATION: n is a, t, c or g
153 <220> FEATURE:
154 <221> NAME/KEY: misc_feature
155 <222> LOCATION: (441)..(441)
156 <223> OTHER INFORMATION: n is a, t, c or g
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <222> LOCATION: (442)..(442)
162 <223> OTHER INFORMATION: n is a, t, c or g

RAW SEQUENCE LISTING DATE: 10/17/2001
PATENT APPLICATION: US/09/816,653 TIME: 15:43:39

Input Set : A:\Sequence listing 09.816653--10716.57.txt
Output Set: N:\CRF3\10172001\I816653.raw

165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (694)..(694)
168 <223> OTHER INFORMATION: n is a, t, c, or g
171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <222> LOCATION: (867)..(867)
174 <223> OTHER INFORMATION: n is a, t, c, or g
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (874)..(874)
180 <223> OTHER INFORMATION: n is a, t, c or g
183 <220> FEATURE:
184 <221> NAME/KEY: misc_feature
185 <222> LOCATION: (905)..(905)
186 <223> OTHER INFORMATION: n is a, t, c or g
189 <220> FEATURE:
190 <221> NAME/KEY: misc_feature
191 <222> LOCATION: (908)..(908)
192 <223> OTHER INFORMATION: n is a, t, c or g
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (1155)..(1155)
198 <223> OTHER INFORMATION: n is a, t, c or g
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (1172)..(1172)
204 <223> OTHER INFORMATION: n is a, t, c or g
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (1174)..(1174)
210 <223> OTHER INFORMATION: n is a, t, c or g
213 <220> FEATURE:
214 <221> NAME/KEY: misc_feature
215 <222> LOCATION: (1197)..(1197) location 1197 is not n
216 <223> OTHER INFORMATION: n is a, t, c or g
219 <220> FEATURE:
220 <221> NAME/KEY: misc_feature
221 <222> LOCATION: (1198)..(1198)
222 <223> OTHER INFORMATION: n is a, t, c or g
225 <220> FEATURE:
226 <221> NAME/KEY: misc_feature
227 <222> LOCATION: (1204)..(1204)
228 <223> OTHER INFORMATION: n is a, t, c or g
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (1295)..(1295)
234 <223> OTHER INFORMATION: n is a, t, c or g
237 <400> SEQUENCE: 3

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/816,653

DATE: 10/17/2001

TIME: 15:43:39

Input Set : A:\Sequence listing 09.816653--10716.57.txt
 Output Set: N:\CRF3\10172001\I816653.raw

238	tgctacatct cagccttgggt ctgttcctgc ttactcacct tcctggtcct gatgcgctca	60
240	ctggtgacac acaggcttgg ttctggggc agcgggatg gccagtttc atgaaacctg	120
242	tttctgtcc ccctgccact cccgccccctg gcagggtctcc tggtgacgca gatcatcttc	180
244	tccctggaa ccacggccct ggccttcctg gtgtcatgc ctgtgctcca tggcaggaac	240
246	tccctgttct tccgttccct ggagtccctg tggcccttct ggctgacttt ggccctggct	300
248	gtgatcctgc agaacatggc agcccattgg gtcttctgg agactcatga tggacaccca	360
250	cagctgacca accggcgagt gctctatgca gccacccatttc ttcttcccc cctcaatgtg	420
W--> 252	ctggtggtg ccatggnnnn nnccctgtcc cccagcattt ccatccgcca ccccacccca	480
254	ggctactaca cgtaccgaaa cttcttgaag attgaagtca gccagtcgca tccagccatg	540
256	acagccttct gtcctgtct cctgcaagcg cagagcctcc tacccaggac catggcagcc	600
258	ccccaggaca gcctcagacc aggggaggaa gacgaaggat gcagctgcta cagacaagg	660
W--> 260	actccatggc caagggagct aggcccgggg ccancggcg cagggctcg tgggtctgg	720
262	cctacacgtc gtcacaaac ccaaccctgc aggtttccg caagacgccc ctgttgggtg	780
264	ccaatggtgc ccagccctgc tccctccctcc cccgctctcc tcccagcatac acaccagcca	840
W--> 266	tgcagccagc aggttctccg gatcacngtg gttnggtgga ggtctgtctg cactgggagc	900
W--> 268	ctcangangg ctctgttcca cccacttggc tatggagag ccagcagggg ttctggagaa	960
270	aaaaacttgt gggtagggc ttggccag gagcagttt agccaggca gcccacatcca	1020
272	ggcgtctccc taccctggct ctgcccatacg ccttgaaggg cctcgtatgaa gccttctctg	1080
274	gaaccactcc agccagctc cacccagcc ttggccatca cgctgtgaa gcagccaagg	1140
W--> 276	cacttcctca ccccnctcage gccacggacc tntntgggaa gtggccgaa agctcdchgg	1200
W--> 278	cctntggctc gcagggcage ccaagtcatg actcagacca ggtcccacac tgagctgccc	1260
W--> 280	acactcgaga gccagatatt ttgttagttt ttatncctt ggctattatg aaagaggtta	1320
282	gtgtgttccc tgcaataaac ttgttccctga g	1351
285	<210> SEQ ID NO: 4	
286	<211> LENGTH: 325	
287	<212> TYPE: PRT	
288	<213> ORGANISM: Homo sapiens hSTRA6 polypeptide fragment, carboxy terminus	
290	<220> FEATURE:	
291	<221> NAME/KEY: MISC_FEATURE	
292	<222> LOCATION: (146)..(148)	
293	<223> OTHER INFORMATION: Xaa represents any amino acid, other, or unknown	
296	<220> FEATURE:	
297	<221> NAME/KEY: MISC_FEATURE	
298	<222> LOCATION: (232)..(232)	
299	<223> OTHER INFORMATION: Xaa represents any amino acid, other, or unknown	
302	<220> FEATURE:	
303	<221> NAME/KEY: MISC_FEATURE	
304	<222> LOCATION: (290)..(290)	
305	<223> OTHER INFORMATION: Xaa represents any amino acid, other, or unknown	
308	<220> FEATURE:	
309	<221> NAME/KEY: MISC_FEATURE	
310	<222> LOCATION: (292)..(292)	
311	<223> OTHER INFORMATION: Xaa represents any amino acid, other, or unknown	
314	<220> FEATURE:	
315	<221> NAME/KEY: MISC_FEATURE	
316	<222> LOCATION: (302)..(302)	
317	<223> OTHER INFORMATION: Xaa represents any amino acid, other, or unknown	
320	<220> FEATURE:	
321	<221> NAME/KEY: MISC_FEATURE	

←

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/816,653

DATE: 10/17/2001
TIME: 15:43:39

Input Set : A:\Sequence listing 09.816653--10716.57.txt
Output Set: N:\CRF3\10172001\I816653.raw

322 <222> LOCATION: (303)..(303)
 323 <223> OTHER INFORMATION: Xaa represents any amino acid, other, or unkown
 326 <400> SEQUENCE: 4
 328 Cys Tyr Ile Ser Ala Leu Val Leu Ser Cys Leu Leu Thr Phe Leu Val
 329 1 5 10 15
 332 Leu Met Arg Ser Leu Val Thr His Arg Leu Gly Ser Gly Gly Ser Gly
 333 20 25 30
 336 Asp Gly Gln Phe Ser Trp Asn Leu Phe Ser Val Pro Leu Pro Leu Pro
 337 35 40 45
 340 Pro Leu Ala Gly Leu Leu Val Gln Gln Ile Ile Phe Phe Leu Gly Thr
 341 50 55 60
 344 Thr Ala Leu Ala Phe Leu Val Leu Met Pro Val Leu His Gly Arg Asn
 345 65 70 75 80
 348 Leu Leu Phe Phe Arg Ser Leu Glu Ser Ser Trp Pro Phe Trp Leu Thr
 349 85 90 95
 352 Leu Ala Leu Ala Val Ile Leu Gln Asn Met Ala Ala His Trp Val Phe
 353 100 105 110
 356 Leu Glu Thr His Asp Gly His Pro Gln Leu Thr Asn Arg Arg Val Leu
 357 115 120 125
 360 Tyr Ala Ala Thr Phe Leu Leu Phe Pro Leu Asn Val Leu Val Gly Ala
 361 130 135 140
 W--> 364 Met Xaa Xaa Xaa Cys Ser Pro Ser Ile Ala Ile Arg His Pro Thr Pro
 365 145 150 155 160
 368 Gly Tyr Tyr Thr Tyr Arg Asn Phe Leu Lys Ile Glu Val Ser Gln Ser
 369 165 170 175
 372 His Pro Ala Met Thr Ala Phe Cys Ser Leu Leu Gln Ala Gln Ser
 373 180 185 190
 376 Leu Leu Pro Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly
 377 195 200 205
 380 Glu Glu Asp Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala
 381 210 215 220
 W--> 384 Lys Gly Ala Arg Pro Gly Ala Xaa Arg Gly Arg Ala Arg Trp Gly Leu
 385 225 230 235 240
 388 Ala Tyr Thr Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr
 389 245 250 255
 392 Ala Leu Leu Gly Ala Asn Gly Ala Gln Pro Cys Ser Ser Leu Pro Gly
 393 260 265 270
 396 Ser Pro Pro Ser Ile Thr Pro Ala Met Gln Pro Ala Gly Pro Pro Asp
 397 275 280 285
 W--> 400 His Xaa Gly Xaa Val Glu Val Cys Leu His Trp Glu Pro Xaa Xaa Gly
 401 290 295 300
 404 Ser Ala Pro Pro Thr Trp Leu Trp Glu Ser Gln Gln Gly Phe Trp Arg
 405 305 310 315 320
 408 Lys Lys Leu Val Gly
 409 325
 412 <210> SEQ ID NO: 5
 413 <211> LENGTH: 6964
 414 <212> TYPE: DNA
 415 <213> ORGANISM: Homo sapiens clone RP11-60L3, Sequencing in Progress, 9 unordered pieces; GenBank AC023300, nts 150524 to 157487

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/816,653

DATE: 10/17/2001
TIME: 15:43:40

Input Set : A:\Sequence listing 09.816653--10716.57.txt
Output Set: N:\CRF3\10172001\I816653.raw

L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5